Please type a plus sign (+) inside this box -> +	PTO/SB/0 Approved for use through 09/30/2000. OMB 06 and Trademark Office: U.S. DEPARTMENT OF COI	51-0032 MMERCE
Inder the Paperwork Reduction Act of 1995, no persons are requi	258100-87183	number.

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 258100-87183

First Inventor or Application Identifier Fulton

THE PREMIUS INTERACTIVE ACCESS TO ONLINE SERVICES

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b), Expre	ss Mail Label No. EL485896516US				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	Assistant Commissioner for Patents ADDRESS TO: Box Patent Application H Washington, DC 20231				
* Fee Transmittal Form (e.g., PTO/SB/17)	5. Microfiche Computer Program (Appendix)				
2. (Submit an original and a duplicate for fee processing) (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications	6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Copy				
- Statement Regarding Fed sponsored R & D	b. Paper Copy (identical to computer copy)				
- Reference to Microfiche Appendix	c. Statement verifying identity of above copies				
- Background of the Invention	ACCOMPANYING APPLICATION PARTS				
- Brief Summary of the Invention	7. Assignment Papers (cover sheet & document(s))				
 Brief Description of the Drawings (if filed) 					
- Detailed Description - Claim(s)	8. 37 C.F.R.§3.73(b) Statement Power of (when there is an assignee) Attorney				
- Abstract of the Disclosure	9. English Translation Document (if applicable)				
3. Drawing(s) (35 U.S.C. 113) [Total Sheets]	10. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations				
4. Oath or Declaration [Total Pages]	11. Preliminary Amendment				
a. Newly executed (original or copy) 12. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)					
b. Copy from a prior application (37 C.F.R. § 1.63(c	* Small Entity Statement filed in prior application				
; DELETION OF INVENTOR(S)	13. Statement(s) Status still proper and desired				
Signed statement attached deleting	Certified Copy of Priority Document(s)				
inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).					
NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY	15. Other:				
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON 137 C.F.R. § 1.28).					
16. If a CONTINUING APPLICATION, check appropriate box, and s. Continuation Divisional Continuation-in-part (C	$\wedge a \alpha \cap \alpha \cap \alpha$				
Prior application information: Examiner Fygn Tex Poinvil Group / Art Unit: 276 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied					
	ring continuation or divisional application and is hereby incorporated by				
17. CORRESPONDE	NCE ADDRESS				
Customer Number or Bar Code Label (Insert Customer No. or Atta	or 🖾 Correspondence address below				
Name	& Arthur LLP				
	ity Law Department				
Address 41 South High Stiele					
City Columbus State	Ohio zip code 43215-6194				
Country USA Telephone	614-227-2000 Fax 614-227-2100				
Name (PrintType) Edwin M. Baranowski	Registration No. (Attorney/Agent) 27, 482				
Signature Sum M. L. Sangarel	Date 2-17-00				
Tolgination Tolgination					

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PORTER WRIGHT MORRIS & ARTHUR LLP

Attornevs & Counselors at Law

Edwin M. Baranowski Patents and Trademarks 614-227-2188 ebaranowski@porterwright.com 41 South High Street Columbus, Ohio 43215-6194

Facsimile: 614-227-2100 Toll Free: 800-533-2794

February 17, 2000

By Express Mail Receipt No. EL485896516US

The Honorable Assistant Commissioner for Patents Box PATENT APPLICATION WASHINGTON DC 20231

RE: Serial No.: To be assigned

Continuation of Serial No.: 08/962,912
Previous Group Art Unit: 2761
Previous Examiner: F. Poinvil
Inventor: Fulton, et al.

Title: COMMUNICATIONS NETWORK INTERFACE FOR

USER FRIENDLY INTERACTIVE ACCESS TO

ONLINE SERVICES

Attorney Docket No.: 258100/87183

Sir:

In the above new continuation application, we are filing:

- (1) Utility Patent Application Transmittal Form PTO/SB/05;
- (2) Fee Transmittal Form PTO/SB/17 (and copy);
- (3) a Preliminary Amendment;
- (4) Substitute Specification (31 pages including 4 claims and Abstract)
- (5) Drawings (11 sheets);
- (6) a copy of a previous Declaration from grandparent application 08/254,146;
- (7) Certificate of Filing; and
- (8) a postcard receipt which we ask be acknowledged and returned to us.

Respectfully submitted,

Edwin M. Baranowski

(Reg. No. 27,482)

Enclosures (as stated) COLUMBUS/784448 v 02

IN THE UNITED STATES DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

By Express Mail Receipt EL485896516US on February 17, 2000

Serial No.:	To be assigned)		
Continuation of Serial No.:	08/962,912)		
Previous Group Art Unit:	2761)	PATENT	
Previous Examiner:	F. Poinvil)	17112111	
Inventor:	Fulton, et al.)		
Title: COMMUNICATIONS NETWORK INTERFACE FOR)		
USER FRIENDLY INTERACTIVE ACCESS TO ONLINE SERVICES (As Amended))		
Attorney Docket No.:	258100/87183)		
The Honorable Assistant Co Box PATENT APPLICATION Washington, D.C. 20231				

PRELIMINARY AMENDMENT

Dear Sir:

This is a preliminary amendment to a continuation of pending patent application serial number 08/962,912, which is a continuation of patent application serial number 08/254,146, now abandoned. Applicant submits that the following amendments and remarks place the application in condition for allowance. Entry of the amendment and allowance of the application are respectfully requested.

- A. In the drawings, please delete Figures 17-283.
- B. In the specification, please make the following amendments:

On Page 1, before the paragraph entitled "<u>FIELD OF THE INVENTION</u>" please insert the following:

--CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation of application serial number 08/962/912, which is a continuation of application serial number 08/254,146, now abandoned.--

On Page 1, please delete the full paragraph following the heading entitled "<u>REFERENCE</u> TO APPENDIX" beginning on page 1 and substitute therefore the following:

-- A listing of the source code included in grandparent application serial number 08/254,146 is incorporated herein by reference as if set out in full.--

On Page 7.1, please delete the entire page.

On Page 14, line 26, please delete "Preferred embodiments of".

On Page 15, please delete lines 1-7.

On Page 15, line 10, please delete "With reference to Figures 17-36, the" and insert therefore -- The--.

On Page 16, please delete lines 3-5 beginning with "The program..." and ending with "... in Figures 37-100."

On Page 22, please delete lines 7-9 beginning with "The program flow chart..." and ending with "... Figures 101-145."

On Page 26, please delete lines 13-15 beginning with "The program flow..." and ending with "... Figures 146-193."

On Page 27, lines 11-12, please delete "with reference to the touch screen features shown in Appendix E".

On Page 30, lines 9-12, please delete "The program flow chart and display screens

2

associated with the travel function are respectively included in Figures 194-240."

On Page 31, line 24, please delete "With reference to Figures 241-283, it may be understood that the" and insert therefore --The--.

On Page 32, lines 2-5, please delete "The program flow chart and display screens associated with the flowers and gifts function are respectively included in Figures 241-283."

On Page 49, please delete the entire page.

Please insert the following section on a separate page after the claims:

--<u>ABSTRACT</u>

A method of obtaining goods or services, accessing an account, obtaining information, or conducting a transaction at a remote location via a programmed user terminal that interacts with a service provider computer through an intermediate service platform. The user terminal has a screen display of informational menus which provides access through connection indicia to the goods, services, information, or transactions offered by the service providers, and provides an option to communicate with a representative of the service provider by voice or TDD through the service platform by terminating the menu display on the terminal screen when the direct connection between the user and the representative of the service provider is initiated.—

C. In the Claims:

- 1. Please cancel claims 52-59.
- 2. Please add the following claims 60-63:
- 60. A method for facilitating transaction processing over a communications network utilizing a visually perceptible screen display, said method comprising:

providing a communications network, said network having a user operable terminal for connecting with and sending and receiving communications at a remote location relative to a provider of transactions and a gateway service platform for processing and transmitting communications to and from the user operable terminal and to and from at least one computer associated with the provider of the transaction;

providing a screen display, on said user operable terminal, of informational menus which provide access through connection indicia on said screen display to a variety of information, goods, and services offered by participating providers of transactions, said connection indicia providing a variety of choices, said buttons being changeable in accordance with different informational menus from said providers of transactions;

communicating to the service platform the user's input corresponding to the user's selection from said variety of information, goods, and services represented by said connection indicia on said screen display;

displaying on the screen display data concerning the information, goods, or services received from the computer through the service platform in response to the user's selection from the variety of choices represented by said connection indicia, said data having been received from the services platform by the terminal;

providing an option, on a screen display of informational menus, selectable by the user to communicate by voice or TDD through the service platform to a representative of the provider of transactions with regard to the user selected information, goods, or services;

enabling the user to communicate with the representative of the provider of transactions by voice or TDD transmission upon the user's selection of said option through a direct communication line between the user and the provider; and

terminating the menu display on the terminal screen when the direct connection between the user and the provider is initiated.

A method of accessing an account, conducting a transaction, obtaining a service or obtaining information with a user interface for a communications network, said communications network including a user operable terminal for connecting with and sending and receiving communications at a remote location relative to a provider of the account, transaction, service or information and a gateway service platform for processing and transmitting communications to and from the user operable terminal and to and from at least one computer associated with the provider of the account, transaction, service or information, said method comprising:

providing, on said user operable terminal, a screen display of connection indicia that are different in accordance with differing modes of operation of the terminal;

providing instructional prompts on the screen display enabling the user to operate the terminal;

providing, in an internally programmed processing unit in the terminal, a multiplicity of preprogrammed choices represented by a plurality of connection indicia each having a different display characteristic with respect to the account, transaction, service or information, said multiplicity of preprogrammed choices being perceptible on the screen display to the user;

registering in the terminal the user's input corresponding to the user's selection from the multiplicity of preprogrammed choices displayed on the screen display;

communicating to the service platform the user's selection registered as the user's

input from the multiplicity of preprogrammed choices;

line between the user and the provider; and

displaying, on the screen display, data concerning the account, transaction, service or information received from the computer through the service platform in response to the user's selection from the multiplicity of preprogrammed choices, said data having been received from the services platform by the terminal;

simultaneously displaying on the screen display the multiplicity of preprogrammed choices and an option selectable by the user to communicate by voice or TDD through the service platform to a representative of the provider with regard to the user selected account, transaction, service or information;

maintaining in the processing unit of the terminal a record of connection address indicia uniquely associated with a representative of the provider of each account, transaction, service or information displayed that is associated with a voice or TDD option;

interconnecting the user terminal with the provider at the address associated with the provider in response to user selection of said option to communicate by voice or TDD; and enabling the user to communicate with the representative of the provider by voice or TDD transmission upon the user's selection of said option through a direct communication

terminating the menu display on the terminal screen when the direct connection between the user and the provider is initiated.

62. The method of claim 60, wherein the step of providing a screen display of informational menus includes providing means for enabling the user to:

enter at least one of the group consisting of a user identification number, a secret code

and a service password;

instruct a financial institution to initiate settlement of debits and credits with respect to charges incurred or funds acquired by the user as a result of a transaction with the provider;

request a confirmation number following successful completion of the transaction with the provider; and

repeat the transaction in the event of interruption or error in the data transmissions or error in the transaction.

63. The method of claim 61, wherein the step of providing a multiplicity of choices includes providing means for enabling the user to:

enter at least one of the group consisting of a user identification number, a secret code and a service password;

instruct a financial institution to initiate settlement of debits and credits with respect to charges incurred or funds acquired by the user as a result of a transaction with the provider;

request a confirmation number following successful completion of the transaction with the provider; and

repeat the transaction in the event of interruption or error in the data transmissions or error in the transaction.

D. Please enter the appended Substitute Specification (31 pages including 4 claims and Abstract).

REMARKS

This is a preliminary amendment to a continuation of pending patent application serial number 08/962,912, which is a continuation of patent application serial number 08/254,146, now abandoned.

Entry of the amendment and allowance in view of this Amendment and the Remarks herein is respectfully requested. The Examiner's careful and thoughtful consideration of the application is appreciated.

This continuation is directed to a method of obtaining services, etc., at a remote location via a programmed user terminal that interacts with a service provider computer through an intermediate service platform. See Specification of pending application serial number 08/962,912 at Page 5, line 16 – Page 6, line 14. Pending application serial number 08/962,912, of which this application is a continuation, was directed at a specific user interface (SmartPhone, namely an interface comprising a terminal having a user friendly touch screen terminal and a display of virtual buttons) and the method of using that specific user interface. However, the current application is not limited to any specific mechanical embodiment of the invention, but is directed at the overall method of the invention.

The amendments to the specification delete references to Figures 17-283 and replace the Abstract. Figures 17-283 are deleted as they are considered redundant and superfluous in view of Exhibit A which contains the underlying source code. A Substitute Specification has been enclosed incorporating the amendments made to the specification herein and other amendments made in the course of prosecution of the two parent cases. The Substitute Specification renumbers claims 60-63 as claims 1-4.

CONCLUSION

Applicant submits the method claimed as the subject matter of this application meets the requirements of 35 U.S.C. 102 and 103 and requests entry of the preliminary amendment and allowance of the application.

Respectfully submitted,

Edwin M. Baranowski, Reg. No. 27,482

Joshua T. Elliott, Reg. No. 43,603 Porter, Wright, Morris & Arthur LLP

Columbus, Ohio 43215

(614) 227-2188 or 800-533-2794

Fax: 614-227-2100

Certificate of Filing by Express Mail

I certify that this Preliminary Amendment, Substitute Specification (31 pages including 4 claims and Abstract), Drawings (11 sheets), and a copy of a previous Declaration, together with Utility Patent Application Transmittal Form PTO/SB/05, Fee Transmittal Form PTO/SB/17 (and copy), and a cover letter with a postcard receipt are being mailed in an envelope addressed to The Honorable Assistant Commissioner for Patents, BOX PATENT APPLICATION, Washington, D.C. 20231 by Express Mail Receipt No. EL485896516US on February 17, 2000.

Joshua T. Elliott

COLUMBUS/770433 v 01

IN THE UNITED STATES DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

By Express Mail Receipt EL485896516US on February 17, 2000

SUBSTITUTE SPECIFICATION

Serial No.:

To be assigned

Continuation of Serial No.:

08/962,912

Previous Group Art Unit:

2761

Previous Examiner:

F. Poinvil

Inventor:

Fulton, et al.

Title: COMMUNICATIONS NETWORK INTERFACE FOR

USER FRIENDLY INTERACTIVE ACCESS TO

ONLINE SERVICES (As Amended)

Attorney Docket No.:

258100/87183

COLUMBUS/783860 v 02

5

By Express Mail Receipt EL485896516US on February 17, 2000

APPLICATION FOR LETTERS PATENT OF THE UNITED STATES

FOR

COMMUNICATIONS NETWORK INTERFACE FOR USER FRIENDLY INTERACTIVE ACCESS TO ONLINE SERVICES

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation of application serial number 08/962/912, which is a continuation of application serial number 08/254,146, now abandoned.

FIELD OF THE INVENTION

This invention relates to a communications network designed to provide user access, presentation and gateway functions that permit a user to communicate with financial institutions and other providers of goods and services via an interactive telecommunications device, and more particularly, to a novel user interface at remote locations in the network for accessing services and information and for transaction processing.

REFERENCE TO APPENDIX

A listing of the source code included in grandparent application serial number 08/254,146 is incorporated herein by reference as if set out in full.

BACKGROUND OF THE INVENTION

An increasing number of people are demanding more convenience to access various types of consumer services, including banking, bill paying, shopping, travel and others.

Catering to the demand for added convenience in banking services are ATMs, direct deposit, and banking by telephone and mail. Personal computers have not been accepted as a

15

20

10

15

20

convenient provider means for these services. Only a small percentage of the public have personal computers with modems, and even fewer have the capability to access any network platform offering banking services.

Marketing research has indicated a consumer demand for convenience-driven services delivered via a screen-based interactive telecommunications device or terminal, such as the telephone/modem or terminal device announced by AT&T and identified by the trade designation AT&T Smart PhoneTM.

There is a need for a user interface for such an interactive telecommunications terminal that will efficiently enable users to have access to many types of services from their homes or offices. The present invention provides such a user interface, which is supported by a service platform network, for communicating with a service provider, thus enabling users to have access to a large variety of services from a single location. Through the present invention, users can perform a multitude of transactions electronically via the terminal, such as banking, purchasing merchandise, making travel arrangements and paying bills, from the convenience of home or office.

SUMMARY OF THE INVENTION

The present invention includes a programmable user interface adapted to provide a multiplicity of images on a touch screen terminal to enable a user to select from multiple service functions, such as from a group that includes banking, bill paying, shopping, travel, gifts and information. The user interface generates displays for providing the user with an option from the group including transaction confirmation, error explanation, transaction repetition and user/provider voice communication.

The user interface interacts with a communications network for operating an account

20

5

or conducting a transaction from a remote location. The present invention relates to a touch screen terminal at a remote location for sending and receiving communications, a service platform for processing the communications, and at least one provider of the account or transaction accessible by the service platform. The service platform includes an application processor with means for user selection of a category of services from a predetermined menu. A service provider can customize the menu of services for its users.

The terminal screen displays the data received from the service platform, which in a touch screen version includes virtual "buttons" touched by the user to continue the transaction as well as to provide directions for subsequent steps to perform the transaction. As referred to herein, a "button" is a relatively small area on the touch screen defined by a box or circle on a particular display of the present interface and which, when touched by the user, will initiate a request or cause a display to be shown on the screen. The flow of data from the service platform is managed to insure a rapid flow of screen displays on the terminal by prioritizing information that the user is most likely to use next. Once the transaction is completed, data about the transaction are sent to the service provider for logging.

In the present invention, a confirmation number is sent to the user's terminal when a financial transaction is successfully completed or an error message is sent to the user's terminal if a transaction is not successfully completed. The user can repeat a transaction or can be connected directly to a service representative upon request. If the user desires, a voice call, Telecommunications Device for the Deaf, generally known to the public by the historical acronym, and as consistently referred to herein as TDD or data transmission communication and a complete session log of the user's transaction sequence are sent to a customer service representative.

10

20

15

The user interface includes a security mechanism for preventing unauthorized access from the user interface to the network, including a user identification number, secret code and serial number of the terminal encoded in the transmission protocol from the user interface.

The present invention includes a method of providing services to a remote location.

A user terminal for sending and receiving data communications is provided and interacts with a service provider computer for sending and receiving data communications. An intermediate service platform is operatively connected to the user terminal and the service provider computer. Requests for services from the user terminal are transmitted to the service platform which receives and processes the request and then sends the request for services to the appropriate service provider's computer. The service provider's computer then receives and processes the request for services in response to communications initiated from or sent to the user terminal and transmitted through the service platform. Responses from the service provider's computer, such as the generation of information and messages, are sent as a response to the user terminal. The response is displayed on the user terminal with instructions enabling the user to proceed with the request for services. Typical services provided include banking, bill paying, shopping, travel, flowers and gifts, and information.

The foregoing and other objects and advantages of the present invention will become more apparent when viewed in light of the accompanying drawings and the following description.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a general flow chart showing the interrelationship of the functional and operational components with which the present invention is associated;

10

20

Figure 1A illustrates an embodiment of a terminal used with the present invention.

Figure 2 shows an embodiment of a main menu of the present invention;

Figure 3 shows an embodiment of a customized menu of the present invention;

Figure 4 illustrates an embodiment showing a list of user's accounts;

Figure 5 illustrates an embodiment showing the balance and overall status of an account;

Figure 6 illustrates an embodiment containing information on an installment loan;

Figure 7 illustrates an embodiment showing a user's most recent printed statement;

Figure 8 illustrates an embodiment showing a list of accounts that the user can move funds from and to, along with an on-screen "form";

Figure 9 illustrates an embodiment showing a transfer confirmation number after funds transfer has been completed;

Figure 10 illustrates an embodiment showing a stop payment "form" on a screen;

Figure 11 illustrates an embodiment showing a list of the various types of accounts for which information is available;

Figure 12 illustrates an embodiment showing a page of text with information about accounts;

Figure 13 illustrates an embodiment showing a user's personalized account;

Figure 14 is a flow chart of the bill paying operations of the present invention;

Figure 15 is a flow chart of the shopping service operations of the present invention; and

Figure 16 is a flow chart of the travel service operations of the present invention.

10

15

20

DESCRIPTION OF THE PREFERRED EMBODIMENT

In general, the present invention is a user interface for a communications network facility designed to provide access, presentation and gateway functions that allow financial institutions and service providers to receive, translate, process and send data between a user's terminal and their computer. The terminal may be any communication device that can receive and send electronic data communications, such as a combined telephone and modem device. The terminal is linked through telephone lines, X.25 packet or other public switched communication networks, to a service platform or network host, which translates protocol and relays the information onto the application processor or remote gateways for access to the service provider's computer.

The service provider's computer receives, translates, processes and responds to the user's commands and sends information back to the user through the network. All proprietary data are captured and retained on the service provider's computer. From the user's perspective, the service platform is invisible. Goods or services are delivered directly from a vendor, a financial institution or a service provider. When a user requests access to a service representative through the user terminal, the connection is made through the public switched telephone network to the service representative.

The service platform consists of a flexible hardware processing and application software environment governed by the UNIX operating system. The UNIX operating system is the resource manager supporting the multiple demands placed upon the service platform by multiple financial institutions and service providers. The service platform receives, translates, processes and sends data between a user's terminal and the computer of the service provider.

10

15

20

The present invention is a "user friendly" terminal interface. To access services, a user uses a "touch screen" which displays virtual buttons labeled with various functions, such as "Banking", "Bill Paying", "Shopping", and the like. When one of these buttons is touched, the terminal automatically dials the telephone number for the service platform using the public telephone network.

The interface responds to user requests, presenting the user with a choice of services. For example, a user who requests banking services chooses from a menu of specific services, including balance inquiry, transfers between accounts, transaction information, bill paying, and others. Directions appearing on the user's screen provide instructions for subsequent steps. To complete transactions requested by a user, the service platform accesses the computer of the service provider to obtain information regarding the user and the proposed transaction. Once the transaction is completed, the data are sent back to the computer for logging.

Access to services and information other than banking services is also provided by the terminal through the service platform. These services provided by affiliated organizations interconnected with the service platform include home shopping, entertainment and travel agents. To access these services, the consumer uses the terminal in the same fashion described above for financial services. The user interface shows the particular service provider's services and transactions. The service platform interfaces with the service provider's computer to access the requested information.

With the present invention, each service provider is able to customize the particular menus of services that it provides for its consumers. Users of the terminal are provided with three layers of security. Each transaction is identified by (1) a user identification number, (2)

10

15

20

a secret code and (3) the serial number of the terminal. In this manner, user data are protected from unauthorized access, thus protecting the confidentiality and integrity of the data.

Referring now to the drawings, Figure 1 is an overall flow chart showing, in general fashion, the interrelationship of certain functional and operative components of a communications network, generally designated 10, in which the present user interface may be employed. The services provided by the present invention operate through a combination of the capabilities of a telephone/modem or terminal 11 and a service platform or processing center 12, which will be typically owned and operated by the network provider.

Figure 1A is an embodiment of a terminal 11 that may be used with the present invention. The terminal 11 is a combined telephone and modem that features a touch-sensitive liquid crystal touch screen display 13 with "buttons" 14 that the user touches to access services. The interactive touch screen display 13 is the user accessible aspect of the terminal interface with the service platform. Although a touch screen is the present preferred embodiment, the invention is adaptable to other technologies, such as audible read-out, voice-recognition, optical remote control, and the like. The terminal 11 may include a telephone handset 15 for voice communications. The terminal also includes a microprocessor that is internally programmable to provide the user interface displayed on the screen and to interact with the service platform through modem communications according to protocol determined by the network provider for the service platform. The terminal also includes permanent and active memory for storage of the operating program and displays and for recording user input data, such as names, account identification, security codes and the like on display (or information) templates, and for recording a sequence of user choice selections for a historical record, or for use when a service representative is called or

10

15

20

required. Source code for a representative program useful with an AT&T Smart Phone™ telephone/modem terminal is included herein at Appendix A, pages 2 through 73.

Thus, the user interface, in combination with the terminal 11, processes information in organized flows which provide access to a variety of information. In addition, the present user interface and the terminal 11 manage the flow of information from the service platform 12 to insure a rapid flow of "screens," prioritizing information the user is most likely to use next, based on the principles of human factors engineering. A sequential paging function in the flow of screens enables users to scan through descriptions of products and services. The paging display is essentially instantaneous because the terminal temporarily stores the relevant information retrieved from the service platform.

The UNIX system in the service platform 12 serves as the "manager" of all outside resources and coordinates a number of functions including scheduling and executing processes, performing inputs and outputs, handling interrupts, managing storage and monitoring the system. As such, UNIX communicates between the various types of computer hardware systems in place at a participating financial institution and any of a number of participating providers of goods and/or services 20. This flexibility enables the participating financial institution 21 and the service providers 20 to use existing computers to connect to the service platform 12 to offer products and services to users.

Typically the participating financial institution 21 interacts with the user by making the user's accounts available for informational and/or transactional purposes. The financial institution 21 is connected to the service platform 12 via one or more data and voice lines.

Once the user sends the appropriate command, via the terminal 11 to the service platform 12, the user is then connected via a high-speed data transmission line to the computer of the

10

15

20

financial institution 21 or other service provider 20. When a user initiates a transaction on the terminal 11, the service platform 12 relays the information to the financial institution's computer, instructing it to execute that transaction for the user. A connection to the service platform may also be provided using various X.25 packet assembler/disassembler equipment in a public or private network with the same functionality. A conventional software application environment connects the financial institution's computer 21 to the service platform 12 and also drives the terminal operation for users. Application development software packages may be customized to provide terminal users access to particular services and to optimally match the financial institution's banking service features and functionality. Bill paying services and related programming may be provided on a turnkey basis for both terminal and voice-response applications.

When a terminal user successfully completes a financial transaction such as a debit or credit to an account, a confirmation number appears on the screen 13, indicating the completion of the transaction. If the transaction was not completed successfully, an "error" message will appear, instructing the terminal user concerning the reason the transaction was not completed. At this point, the user may choose to repeat the transaction or contact a service provider's customer service representative for clarification and assistance. For example, if the user were in the travel services menu, the service platform 12 would automatically launch a voice or TDD call to the travel agency's customer service department. A complete "session log" of the user's step-by-step transaction sequence as recorded in the memory of the terminal is immediately sent by the service platform to the service provider's customer service representative to assist in resolving the terminal user's inquiry. The service platform 12 also provides back-up customer service when the financial institution cannot

10

directly resolve a customer inquiry while terminal users are linked to the selected service through the service platform 12. This link is "invisible" to users, who thus perceive their selected provider as offering the service.

The present interface presents the user with a number of options that are available

The present interface presents the user with a number of options that are available with each of the services. The common options relate to security/identification, confirmation of transaction, error explanation, repetition of transaction, and customer service voice or TDD communication. These common options, as well as the options which are associated with a particular service, are presented as graphic and alphanumeric images on the terminal screen 13.

I.

SIGN-ON

The user at sign-on is required to provide identification and other details before access to an account or other transaction is provided.

Users access terminal services by entering their user ID, which they keep confidential as a security precaution. PIN encryption with a secret code may also be used, thus providing another safeguard for terminal users. The service platform also provides an additional level of security by recognizing the unique identification of each terminal.

After accessing the terminal, users view a main menu, such as shown in Figure 2, from which service options such as banking, shopping, and bill paying may be selected.

II.

BANKING

When "Banking" is touched on one of the "sign-on" menu screens (Figure 2), a menu of banking services, Figure 3, appears on the screen.

20

15

10

The basic menu includes:

- Account Information,
- Transfer,
- Stop Payment,
- Information and
- Personalized Account.

This latter feature allows users to name an account (for example, "Mike's Checking," "Jan's Checking") to distinguish various accounts.

A customized menu tailored to the offerings of a particular banking provider may also be developed.

After a choice from the menu is selected, for example, when a user touches the "Banking" button appearing on the screen, the service platform retrieves a user profile stored in the financial institution's computer. This profile will usually include the user's name, listing of accounts and balances, and other basic data. The profile is stored in the service platform during the banking session to insure smooth and rapid flows of information.

As the banking session proceeds, the service platform/processing center (12 in Figure 1) moderates the flow of information between the user's terminal and the financial institution's computer. If account information that is more detailed than that included in the user profile is needed, the service platform accesses the financial institution's computer to retrieve the necessary data.

If a user desires to know the balances of various accounts, he or she chooses the "Account Information" service from the banking menu (Figure 3). Next, a list of user's accounts appears on the screen, including checking, savings, CD's, money market accounts,

20

15

10

15

20

installment loans and other. The accounts may be listed by number or by a name as chosen by the user. Each account will have a button beside it, as shown in Figure 4.

Once the user chooses the account to review, the balance and overall status of that account appears on the screen. An example of this screen is shown in Figure 5. The type of information will vary according to the type of account. For example, for a checking account, the information includes the balance, last statement date, interest received and checking reserve available (overdraft protection). By comparison, the information on an installment loan includes: loan amount, balance, term, maturity date, collateral and next payment date. An example of a screen containing the information on an installment loan is shown in Figure 6. The user may make payments on the installment loan through the bill paying service of the present invention.

By touching the button marked "Latest Transactions" at the top of the screen shown in Figure 5, the user can review account history. The amount and type of information available varies according to the type of account. For example, by touching "Latest Transactions" for a checking account, a user can review all transactions since the last statement. By next touching "Last Statement," the user can review the most recent printed statement received, as shown by the example of Figure 7.

The user has the option to move back and forth between the "Latest Transactions" and "Balance and Status" screens at any time. To exit "Account Information," the user either touches "DONE" at the end of a transaction, which returns the screen to the Banking menu, or the user touches "Start Over," which returns the screen to the main menu.

A user may also transfer money between accounts by pressing the "Transfer" button in the Banking menu. Next, the screen will feature a list of accounts that the user can move

20

5

funds from and to, along with an on-screen "form" which asks "From Account," "To Account," and "Amount," as shown in Figure 8. Once the user fills out the form using the subject display, the next display will request a confirmation. To do so, the user presses "DONE." The next display, Figure 9, provides a transfer confirmation number, which the user should enter into a check register. When the user touches "DONE" again, the screen returns to the banking menu.

With reference to Figure 10, if a user needs to stop a payment, the appropriate display prompts the user to specify the account. Next, the display provides a message explaining the fee for the service. The present interface prompts the user to complete a "form" on the screen which includes the check number and, if possible, the dollar amount and the reason. Once the form is complete, the user presses the "DONE" button and the request is entered. The screen next provides a disclaimer about the terms and conditions of the transaction, explaining that the stop payment order will be placed within 24 hours and that the stop payment cannot be enforced if the check has already been cashed. When the user again presses "DONE," the screen returns to the banking menu. Upon registration of the stop payment instruction at the financial institution, the user will receive via mail a form from the institution which must be completed and returned to confirm the stop payment order. The same procedure is necessary if the stop payment order is made verbally over a conventional telephone.

Users can review an electronic "catalog" of the financial institution's products and services by pressing "Information" on the main banking service menu (Figure 3). The information appears in pages of text, which the user can scan by "paging through" the material. Figure 11 shows the first screen which lists the various types of accounts for which

10

-

20

15

information is available. The terminal and service platform are designed to manage the flow of multiple pages of text so that moving from page to page is easy and essentially instantaneous. An example of a page of text is shown in Figure 12. If a user wishes to open an account, he or she presses the "Huntington Direct" button and is connected by voice, TDD or data transmission communication to a customer service representative. The customer service representative will open the account, as requested. This voice, TDD or data transmission communication option may be chosen from any screen or menu.

The programmable aspect of the user terminal also allows users to personalize the name of accounts for easy recall. For example, different savings accounts might be labeled "Eric's College Fund" or "Vacation Account." After an account is personalized, the detailed information regarding these accounts can be accessed by the user. If a user wants to personalize his or her account, he or she presses the "Personalized Accounts" button, and a list of all accounts appear on the screen (Figure 13). Next, the user touches a button beside the account to create a customized name. A "keyboard" appears on the screen asking the user to enter the new name for the account. The user enters the information and the terminal asks for a confirmation. When the user presses "DONE," the screen returns to the list of accounts and the new personalized name appears on the screen. Once the user confirms the name, it appears under the user-selected name whenever that account appears on a terminal menu. If the user wishes, the personalized name appears on printed statements. When the user presses "DONE" again, the screen returns to the banking menu.

When a user pays a bill using the terminal bill paying service, the bill paying service asks the banking service to verify if there are sufficient funds. Further, the bill paying service updates the user's information in the computer when a bill is paid. The transaction is

10

15

20

memo posted so that the funds are not available. The user will see the updated balance on the terminal on the morning after the next business day.

In accordance with the present invention, on nearly every screen, the user has the opportunity to press a button to reach a customer service representative from the user's financial institution. Once the user confirms the request for personal service, the banking session ends, the data link to the service platform terminates, and the service platform dials the financial institution's customer service center.

III.

BILL PAYING

The user interface offers different access methods including terminal and automated voice response (AVR) applications accessed using conventional telephone networks. Figure 14 is an overall flow chart of bill paying operations. When the bill paying service is assessed by the terminal, access to the service platform processing center is similar to that stated above, with the user accessing the system with an account number and PIN. Access procedures for voice response users are determined by individual financial institutions.

Voice response users may access the bill paying service through the service platform using a regular touch-tone telephone, rotary dial telephone, or voice recognition technology. Many of the advanced features of the service platform bill paying service are available to voice response users as well as to users using a terminal. Financial institutions may choose to offer both AVR and terminal access so that customers can access bill paying capabilities in either mode.

The system architecture of the service platform allows users to move from service to service without re-entering their identification number and PIN. Once the terminal user

10

15

20

accesses the bill paying function, the following procedures occur:

- (1) The service platform communicates with the computer of the user's financial institution to identify the terminal user's profile, which includes payees and accounts.
- (2) The user may add, delete or change payees, schedule, reschedule or cancel future payments, or inquire about previously made payments.
- (3) Each time a payment is made or a payee is added or modified, the information is sent to the service platform. The user is provided with a confirmation number for financial transactions, which serves as a "receipt."
- (4) Upon completion of all bill-paying transactions, the terminal user touches "DONE" and the platform terminates bill-paying activities. The user is returned to the main services menu display, where they can choose additional services. When "DONE" is touched again, all transactions are completed.

To establish the electronic bill paying service, terminal users that are customers of a financial institution sign up for bill paying services using their terminal display. Voice response users follow procedures established by their financial institution, using the mail or conventional telephone. Terminal users can add, delete and change information regarding businesses which participate in electronic bill-paying, without the need for access to a customer service representative. Users can make payments to any individual or business, meaning that their electronic transactions will serve as a complete "checkbook." After each payment, users are provided with a confirmation number which serves as a receipt. Terminal users will see the number on their display, while voice response users will hear the number.

Users can set up, change or delete a schedule of recurring payments for the same

10

20

amount and account on a specific date. Users can receive information on the last two payments made to each payee, either by terminal display or voice response. Furthermore, users can view their personal list of payees at any time.

The service platform bill paying system offers functions and services which enhance user convenience. These include:

- (1) Payee Subtitle. Users may establish a personalized subtitle for each payee, such as separate credit card accounts for spouses with titles such as "Credit Card, Liz," and "Credit Card, Andy." Terminal users may establish such subtitles using their screen. Voice response users can call or write their financial institution.
- (2) Instant Payee Startup. Through a selected display in the present interface, a user may establish a new participating payee and immediately authorize a payment,
- (3) Payee Search. This terminal function enables users to view a master list of participating payees and quickly punch an access code for convenient access to frequently used payees.
- (4) Payee Search-by-Category. This function permits users to view participating payees in pre-defined categories (utilities, credit cards, etc.). This is useful when establishing new payees in a user's personal list.
- (5) List of Upcoming Payments. Users have access to present and future scheduled payments, either via terminal display or voice response listing.
- (6) Multiple Funding Accounts. All users are able to debit any of their accounts even at different financial institutions to fund payments. This flexibility

10

15

20

simplifies finance management.

(7) Expected Funds Delivery Date. Each transaction confirmation includes the average number of days before the payee receives the appropriate funds, based upon the remittance method used.

The service platform bill paying system uses electronic networks whenever possible to make payments convenient for the payee and the user. Typical networks available include: (1) Automated Clearinghouse and Electronic Data Interchange (ACH/EDI) using the automated clearinghouse to send debits and credits, with remittance information transmitted in EDI format; (2) Automated Clearinghouse Facsimile (ACH/Fax) which will also send a credit via the ACH system and send remittance information to payees via fax; and (3) MasterCard's Remittance Processing Service (RPS) that allows electronic transmissions of payments and remittances to be delivered to an already established payee base. Other methods may be added to provide flexibility to the financial institution to customize a package which meets local needs. For example, a major local department store could set up an automatic payment account. Whenever electronic means cannot be used the bill paying system creates paper checks and mails them to payees.

The electronic bill paying portion of the service platform may be driven by a customized version of Personal Transaction Teller (PTT), a bill paying software package that is proprietary to The Huntington National Bank, Columbus, Ohio, or other appropriate types of bill paying software packages. In addition, the financial institution's customer service representative will have immediate access to bill paying information, in many instances enabling representatives to resolve inquiries while the user is on the telephone. The service platform maintains records of, and reports the standards of customer service to the financial

10

institution on a regular basis. Measurable service standards that are monitored and reported include total time of error resolution, total number of user inquiries, and ratio of problems to total transactions.

IV.

SHOPPING

The present interface allows terminal users to enjoy the convenience and control of shopping with participating suppliers at home, 24 hours a day, 7 days a week. Users of the system are provided with catalog shopping services. The "catalog" is a database organized by product categories and types, enabling users to shop for items by department, as they would if they were in a major department store. The database is updated frequently to incorporate the most popular items for terminal users. Examples of the type of merchandise available through the catalog shopping service are electronics, appliances, toys, luggage, home furnishings, jewelry, and the like.

As illustrated in Figure 15, the terminal user accesses the catalog shopping service through the service platform. Using the appropriate displays of the present interface, users are guided through the shopping options by on-screen directions. As the terminal user touches buttons on the screen, the service platform routes information, enabling users to make price comparisons and order the latest merchandise quickly and easily. Terminal users use the catalog shopping services by following the procedures outlined below:

- (1) Select "Catalog Shopping Service." From the main shopping display menu, the user selects "Catalog Shopping Service."
- (2) Choose Shopping Option. The terminal user chooses from three options:
 - (A) "Best Buys" Category. Users can shop for merchandise by browsing

20

15

10

20

15

through the service's most popular product categories. Upon entering "Best Buys," the display prompts users to select a category of merchandise, such as "Stereo Equipment". The next step is a selection of a specific type of product within those categories, such as "Cassette Players" or "Portable Radios". Once the selection is made, the user views a choice of manufacturers and models. The user can "page through" listings, which include a brief description, manufacturer's suggested list price, the price available to terminal users, and the cost savings associated with making the purchase through the service platform. Further, the user can access more detailed product descriptions by touching the appropriate "button". Once the user has made the selection, the order is placed directly from the "Best Buys" category.

- (B) Order by Model Number. Comparison shoppers, who have researched the product and know its brand name and model number, can enter the model number to retrieve the product's catalog listing. The listing states the manufacturer's suggested list price compared to the price available to terminal users.
- (C) "What's New?" This terminal feature informs users of new merchandise available through the catalog service.

Other shopping options may allow users to select a specific manufacturer, price range or product feature and review all products included in the catalog which fit the user's needs.

(3) Order Merchandise and Arrange for Payment and Delivery. Once the purchase

10

15 mm of the control of the control

20

decision has been made, the terminal user presses "Order This," along with the product identification number, price, quantity, size, color and other specifications as appropriate. When prompted for payment, the user enters his or her credit card number and expiration date. The service platform verifies the information to insure the card number is valid. When the user places an order, the service platform retrieves basic user information from the financial institution's computer, such as name, address and telephone number, for billing and shipping purposes. The user confirms the order and shipping/billing information as prompted on the screen display and the order is placed. Most merchandise orders are sent instantaneously via electronic data interchange to the appropriate participating vendor that ships the order in accordance with instructions provided by the user through the terminal interface.

(4) Exit Shopping Service. Upon completion of the catalog shopping transaction, the terminal user touches "DONE" on the screen and the platform terminates the catalog shopping activities. Then the user is returned to the main services menu display.

At any time while shopping through the terminal, the user can choose to speak to a customer service representative of the catalog service provider by touching the appropriate screen button. This/disengages the on-screen shopping session and automatically dials the catalog vendor's service department. The user can then inquire about the status of an order, check on the availability of items or receive assistance in locating an item.

Catalog shopping requires the same access to the service platform established with bill paying or banking services.

10

V.

TRAVEL

Figure 16 is a general flow chart of the travel service operations of the present invention. Airline reservations and other travel services are available through the present interface.

The service platform provides a link between the terminal user and an airline reservation system. The participating service provider travel agency handles ticket fulfillment and customer service. Users can make domestic airline reservations directly, without contacting a customer service representative or travel agent, thus the result will be increased consumer control and convenience. To arrange a flight, the user: (1) selects the displayed menu button to access "Travel" services; (2) enters the city of departure using the display relating thereto; 3) enters the destination; and 4) enters the desired date and time of departure or arrival.

The interface will ask questions necessary to clarify any ambiguities. For example, if the user enters "Columbus," the screen will ask "Columbus, Ohio or Columbus, Georgia?"

The user will provide the same information regarding the return trip. The service platform uses this information to access an airline reservation database which contains domestic flight information. The service platform gathers information on all available flights which meet the user's specifications, and the present interface displays them on the user's terminal screen.

A user can establish a travel profile through the present interface that includes basic information such as seating preference and frequent flyer account numbers. This enhances convenience by allowing the user to bypass routine booking information.

The interface also prompts the user regarding the need for hotel or car rental

20

15

10

15

20

5

reservations for the trip. These arrangements can be made by touching an appropriate screen button. Cruise and package vacations also can be booked by connecting directly to the service provider's travel consultants. Once the user has made final choices, the interface to the reservation system books the reservation and queues the ticket to the service provider travel agency, who mails or delivers the tickets to the user.

VI.

FLOWERS AND GIFTS

The present interface may provide the user with the ability to send flowers and other items to designated recipients, along with standard or original messages. The program flow chart and display screens associated with the flowers and gifts function are respectively included in Appendix G, at pages G-I through G-23 and G-24 through G-43. Displays are provided for entering the name and location of the recipient. Additional displays are provided for selecting the desired type and quantity of flower or other gift. Pricing and availability, and shipping information are also provided by the present interface. Order review, order confirmation, billing information, credit card information appear in sequential fashion.

The present invention may also be used in conjunction with commercial applications that include services for businesses. These services may include general banking services such as bill paying, an "electronic checkbook," payroll applications, credit and loan-related services, investment services, tax services, information services such as credit bureau information, reference services, and a community calendar.

Entertainment services can be provided which enable the terminal user to order a wide range of items such as event tickets, flowers, and make restaurant and hotel

5

reservations.

Having described the invention in detail, those skilled in the art will appreciate that, given the present disclosure, modifications may be made to the invention without departing from the spirit of the inventive concept herein described. Therefore, it is not intended that the scope of the invention be limited to the specific and preferred embodiments illustrated and described. Rather, it is intended that the scope of the invention be determined by the appended claims.

that had the less that was that will had had had

What is claimed is:

1. A method for facilitating transaction processing over a communications network utilizing a visually perceptible screen display, said method comprising:

providing a communications network, said network having a user operable terminal for connecting with and sending and receiving communications at a remote location relative to a provider of transactions and a gateway service platform for processing and transmitting communications to and from the user operable terminal and to and from at least one computer associated with the provider of the transaction;

providing a screen display, on said user operable terminal, of informational menus which provide access through connection indicia on said screen display to a variety of information, goods, and services offered by participating providers of transactions, said connection indicia providing a variety of choices, said buttons being changeable in accordance with different informational menus from said providers of transactions;

communicating to the service platform the user's input corresponding to the user's selection from said variety of information, goods, and services represented by said connection indicia on said screen display;

displaying on the screen display data concerning the information, goods, or services received from the computer through the service platform in response to the user's selection from the variety of choices represented by said connection indicia, said data having been received from the services platform by the terminal;

providing an option, on a screen display of informational menus, selectable by the user to communicate by voice or TDD through the service platform to a representative of the

C HANG BY SHIP THE THE THE THE THE THE THE THE

provider of transactions with regard to the user selected information, goods, or services;

enabling the user to communicate with the representative of the provider of transactions by voice or TDD transmission upon the user's selection of said option through a direct communication line between the user and the provider; and

terminating the menu display on the terminal screen when the direct connection between the user and the provider is initiated.

2. A method of accessing an account, conducting a transaction, obtaining a service or obtaining information with a user interface for a communications network, said communications network including a user operable terminal for connecting with and sending and receiving communications at a remote location relative to a provider of the account, transaction, service or information and a gateway service platform for processing and transmitting communications to and from the user operable terminal and to and from at least one computer associated with the provider of the account, transaction, service or information, said method comprising:

providing, on said user operable terminal, a screen display of connection indicia that are different in accordance with differing modes of operation of the terminal;

providing instructional prompts on the screen display enabling the user to operate the terminal;

providing, in an internally programmed processing unit in the terminal, a multiplicity of preprogrammed choices represented by a plurality of connection indicia each having a different display characteristic with respect to the account, transaction, service or information, said multiplicity of preprogrammed choices being perceptible on the screen

display to the user;

registering in the terminal the user's input corresponding to the user's selection from the multiplicity of preprogrammed choices displayed on the screen display;

communicating to the service platform the user's selection registered as the user's input from the multiplicity of preprogrammed choices;

displaying, on the screen display, data concerning the account, transaction, service or information received from the computer through the service platform in response to the user's selection from the multiplicity of preprogrammed choices, said data having been received from the services platform by the terminal;

simultaneously displaying on the screen display the multiplicity of preprogrammed choices and an option selectable by the user to communicate by voice or TDD through the service platform to a representative of the provider with regard to the user selected account, transaction, service or information;

maintaining in the processing unit of the terminal a record of connection address indicia uniquely associated with a representative of the provider of each account, transaction, service or information displayed that is associated with a voice or TDD option;

interconnecting the user terminal with the provider at the address associated with the provider in response to user selection of said option to communicate by voice or TDD; and enabling the user to communicate with the representative of the provider by voice or TDD transmission upon the user's selection of said option through a direct communication line between the user and the provider; and

terminating the menu display on the terminal screen when the direct connection between the user and the provider is initiated.

3. The method of claim 1, wherein the step of providing a screen display of informational menus includes providing means for enabling the user to:

enter at least one of the group consisting of a user identification number, a secret code and a service password;

instruct a financial institution to initiate settlement of debits and credits with respect to charges incurred or funds acquired by the user as a result of a transaction with the provider;

request a confirmation number following successful completion of the transaction with the provider; and

repeat the transaction in the event of interruption or error in the data transmissions or error in the transaction.

4. The method of claim 2, wherein the step of providing a multiplicity of choices includes providing means for enabling the user to:

enter at least one of the group consisting of a user identification number, a secret code and a service password;

instruct a financial institution to initiate settlement of debits and credits with respect to charges incurred or funds acquired by the user as a result of a transaction with the provider;

request a confirmation number following successful completion of the transaction with the provider; and

repeat the transaction in the event of interruption or error in the data transmissions or

error in the transaction.

ABSTRACT

A method of obtaining goods or services, accessing an account, obtaining information, or conducting a transaction at a remote location via a programmed user terminal that interacts with a service provider computer through an intermediate service platform. The user terminal has a screen display of informational menus which provides access through connection indicia to the goods, services, information, or transactions offered by the service providers, and provides an option to communicate with a representative of the service provider by voice or TDD through the service platform by terminating the menu display on the terminal screen when the direct connection between the user and the representative of the service provider is initiated.

COLUMBUS/785129 v 01

IN THE UNITED STATES DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

By Express Mail Receipt EL485896516US on February 17, 2000

DRAWINGS (11 SHEETS)

Serial No.: To be assigned Continuation of Serial No.: 08/962,912

Previous Group Art Unit: 2761
Previous Examiner: F. Poinvil
Inventor: Fulton, et al.

Title: COMMUNICATIONS NETWORK INTERFACE FOR

USER FRIENDLY INTERACTIVE ACCESS TO

ONLINE SERVICES (As Amended) Attorney Docket No.: 258100/87183

COLUMBUS/783860 v 03

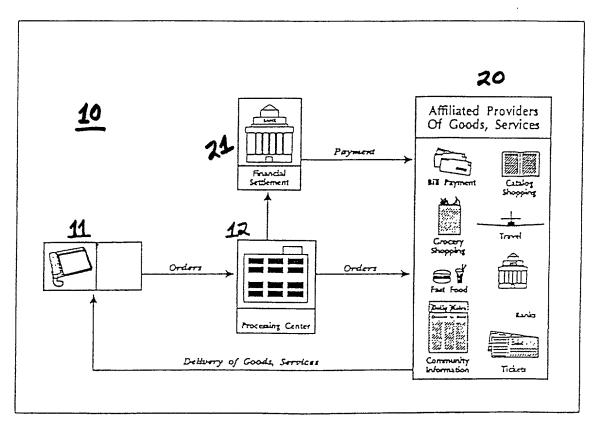


Figure 1.

T	ouch button for de	estred item.	
	er rates for n customers		
Our exclusive DIRECT items:	Banking	Payments	
Catalog			
Huntington Direct			HANG UP

Figure 2

) J			
NEW: better rates for Huntington customers			START OVER
Account Information	Transfers	Stop Payments	
Information	Personalize Accounts		
Huntington Direct			HANG UP

Figure 3

	7 accounts ect account: 234	
Checking 1234-567890-1 House Account	Balance: \$3,129.07	START
Money Market 4567-890123-4 My Money Market	Balance: \$2,545.10	
Savings 5678-901234-5 Tim's University	Balance: \$2,529.07	
VISA Regular 1234-5678-9012-34 John's current VISA		\
Huntington Direct Transfer Funds		HANG UP

Figure 4

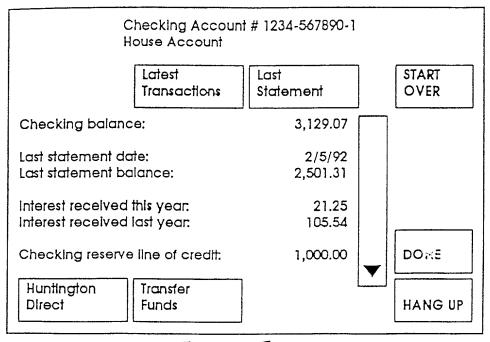
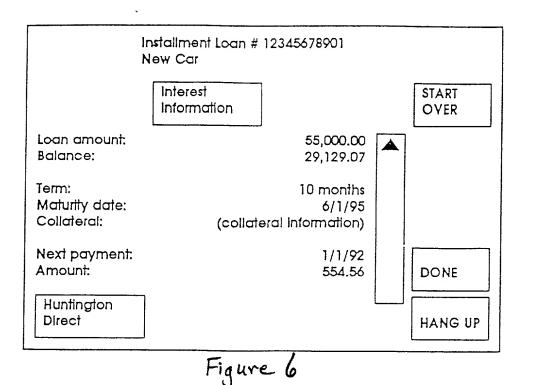


Figure 5



Checking Account # 1234-567890-1 House Account Balance Last START Information Statement OVER 4891 6/18 Check 50.00 4890 6/18 Check 7.54 6/18 Deposit +238.50 4889 6/17 Check 29.44 4888 6/16 Check 322.00 6/16 Columbia Gas 60.00 6/14 Cash - Clintonville 60.00 4885 6/14 Check 27.00 4884 6/14 Check 45.00 DONE Huntington Transfer Overdratt Direct **Funds** Protection HANG UP

Figure 7

Verify that the I	Transfer Funds — Touch button to enter or change Information. Information below is correct. accept.	
FROM		ВАСК
Amount		DONE
	Figure 8	

Banking – Transfer Funds Funds transfer has been completed.

The confirmation number for transaction is 1234567890 Please note it for your records.

FROM: Checking

Before:

\$3,129.07

1234-567890-1

Affer:

House Account

\$3,079.07

TO:

Savings

Before:

\$300.00

7890-123456-7

After.

\$350.00

Vacation

Amount: \$50.00

DONE

Figure 9

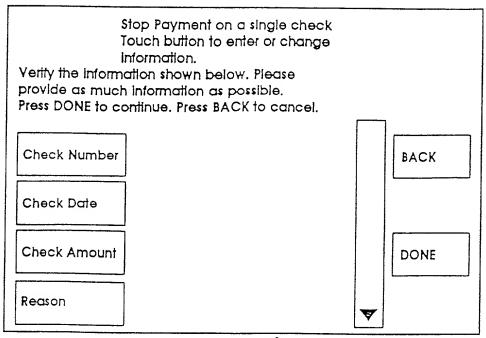


Figure 10

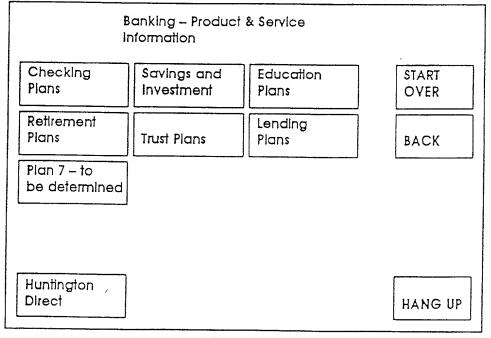


Figure 11

Information – Checking Plans For more information, press HUNTINGTON DIRECT.	
HUNTINGTON CHECKING PLUS: A full-service, affordable and customizable package at a single fee.	
HUNTINGTON PERSONAL INTEREST ACCOUNT: Unlimited transactions, interests on funds and little to no fees.	
HUNTINGTON CLUB PLUS: If you are 55 and up and want the full service that you deserve.	DONE
Huntington Direct	HANG UP

Figure 12

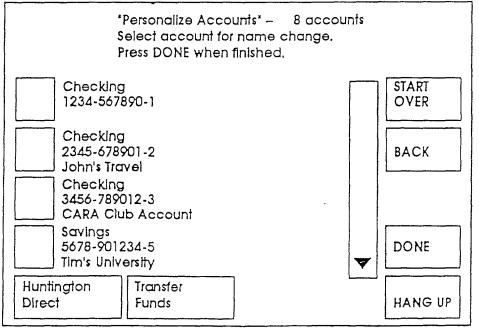


Figure 13

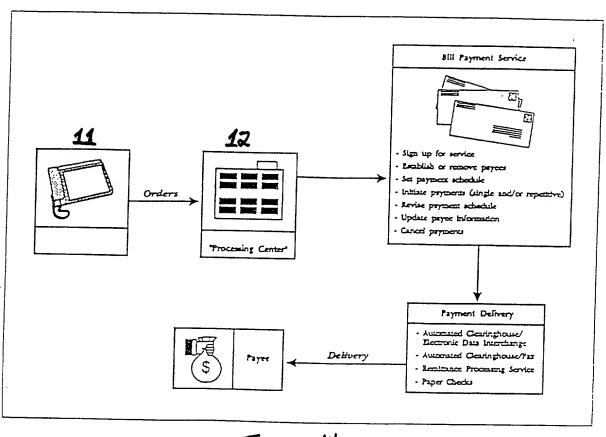


Figure 14

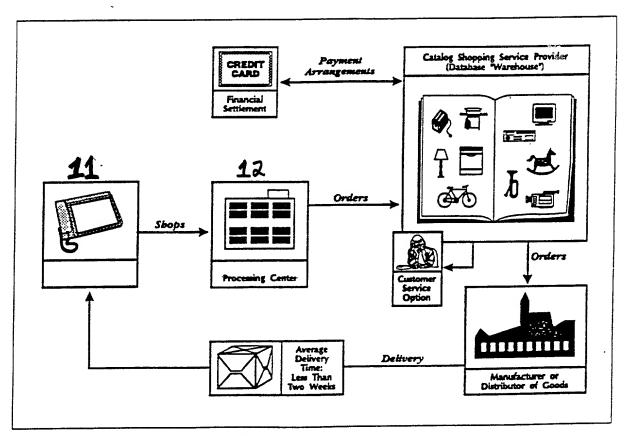


Figure 15

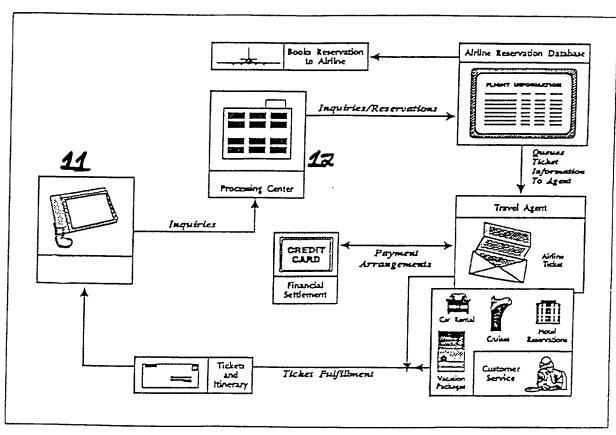


Figure 16

FILED BY EXPRESS MAIL RECEIPT NO. TB606868768 US ON JUNE 6, 1994

APPLICATION FOR LETTERS PATENT OF THE UNITED STATES FOR

USER INTERFACE FOR REMOTE COMMUNICATIONS AND TRANSACTION PROCESSING WITH FINANCIAL INSTITUTIONS, AND SERVICE AND INFORMATION PROVIDERS AND THE LIKE

DECLARATION FOR PATENT APPLICATION Docket No. 258100-87183

As the below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

I believe I am the original, first and joint inventor and that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled USER INTERFACE FOR REMOTE COMMUNICATIONS AND TRANSACTION PROCESSING WITH FINANCIAL INSTITUTIONS, AND SERVICE AND INFORMATION PROVIDERS AND THE LIKE, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior	Foreign	Application(s)		Priority	Claimed
	None				
4)	Number)	(Country)	(Day/Month/Year Filed	Yes	No

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Not applicable.				
(Application Serial No.)	(Filing Date)	(Status-patented,	pending,	abandoned)

We hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Edwin M. Baranowski, Reg. No. 27,482
William C. Rambo, Reg. No. 29,694
Laurie N. Jacques, Reg. No. 35,905
Michael D. Steffensmeier, Reg. No. 37,735
Porter, Wright, Morris & Arthur
41 South High Street, 28th Floor
Columbus, Ohio 43215

Address all telephone calls to Michael D. Steffensmeier at (614) 227-2010.

Address all correspondence to:

Porter, Wright, Morris & Arthur ATTN: Intellectual Property Department 41 South High Street, 28th Floor Columbus, Ohio 43215

We hereby declare that all statements made herein of our knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of joint inventor: John W. Fulton Inventor's signature: Citizenship: U.S.A. Residence: Columbus, Ohio Address: 2216 15414514 Ac. Columbul OH 43601	Date:	Ine 3 April _,	1994
Full name of joint inventor: Thomas N. Shafer Inventor's signature: Thomas M. Shafer Citizenship: U.S.A. Residence: Columbus, Ohio Address: 3649 Lakestone Circle Hilliard, OH 43026	Date:	June 3 April_,	1994
Inventor's signature: Marianne Shepard Citizenship: U.S.A. Residence: Columbus, Ohio Address: 8394 Storrow Ar Winterville the 43%1	_ Date:	Joine 2,	1994

STE/251:7-8